

## **XV. Oceanography- Government**

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*Section XV of the Modifications of Activities Planned for 1999-2000 presents final information regarding United States Antarctic Program sponsored oceanographic expeditions during the 1999-2000 season.*

**Note:** For actual tracks of the Research Vessels NATHANIEL B. PALMER and LAURENCE M. GOULD please see Attachment C, Cruise Tracks.

### **R/V NATHANIEL B. PALMER**

The R/V NATHANIEL B. PALMER made cruises during the period of 30 March 1999 through 31 March 2000. Cruises are:

#### **Cruise NBP99-3**

28 March – 11 April 1999: *Studies of sediment dispersal patterns across the Palmer Deep region of Antarctica.*

GO-072-O (Domack)

#### **Cruise NBP99-4**

15 April – 10 May 1999: *Study of Hydrothermal Activity in the Bransfield Strait region of Antarctica*

GO-060-O (Klinkhammer)

#### **Cruise NBP99-5**

14 May – 06 June 1999: *Support of ongoing land- and ocean-based seismometer deployments in the South Shetland Island Archipelago region of Antarctica.*

GO-135-O (Dorman) GO-097-O (Wiens)

**Cruise NBP99-6**

11 June – 16 July 1999: *Long-Term Study of the Antarctic Marine Ecosystem: An Ice-Dominated Environment (LTER)*

BP-013-O (Fraser) BP-016-O (Vernet) BP-021-O (Martinson) BP-028-O (Quetin) BP-032-O (Smith) BP-046-O (Karl)

**Cruise NBP99-7**

19 July – 17 August: *Maintenance Period in Talcahuano, Chile. Installation of Terascan and U.S. Coast Guard Inspection were major projects for this dry dock of the R/V NATHANIEL B. PALMER.*

**Cruise NBP99-8**

17 August – 8 September 1999: *Mapping Magnetic Anomalies across the southern Pacific Ocean.*

GO-071-O (Cande)

**Vessel Lay-Up Period**

8 September – 20 December 1999: *Lay-up period in Christchurch, New Zealand. A charter-required propulsion systems test and a UNOLS Inspection occurred during this time along with several maintenance and repair projects.*

**Cruise NBP99-9**

20 December 1999 – 10 February 2000: *Study of Pack Ice Seals in the Southern Ocean/Ross Sea regions of Antarctica.*

BE-198-A (Bengtson) BE-198-B (Torres) BE-198-C (Ackley) BE-198-D (Quetin) BE-199-O (Castellini) BE-229-O (Stewart) BE-230-O (Yochem) BE-309-O (Siniff)

**Biology & Medicine**

Principal Investigator	I.D. No.	Institution
Fraser, Bill (+4)	BP-013-O	Montana State University
Vernet, Maria (+4)	BP-016-O	Scripps Institute of Oceanography
Martinson, Doug (+1)	BP-021-O	Lamont-Doherty Earth Observatory

Quetin, Langdon (+7) and Robin Ross	BP-028-O	University of California, Santa Barbara
Smith, Ray (+3)	BP-032-O	ICESS, University of California, Santa Barbara
Karl, Dave (+7)	BP-046-O	University of Hawaii, Honolulu
Bengtson, John (+6)	BE-198-A	National Marine Mammal Lab
Torres, Joseph (+4)	BE-198-B	University of Southern Florida
Jacobs, Stan (+4)	BE-198-C	Lamont-Doherty Earth Observatory
Quetin, Langdon (+4) and Robin Ross	BE-198-D	University of California, Santa Barbara
Castellini, Michael (+2)	BE-199-O	University of Alaska, Fairbanks
Stewart, Brent (+1)	BE-229-O	Hubbs-Sea World Research Institute
Yochem, Pamela (+1)	BE-230-O	Hubbs-Sea World Research Institute
Siniff, Donald, (+4)	BE-309-O	University of Minnesota

## **Geology & Geophysics**

<b>Principal Investigator</b>	<b>I.D. No.</b>	<b>Institution</b>
Klinkhammer, Gary(+23)	GO-060-O	Oregon State University
Cande, Steve (+3)	GO-071-O	Scripps Institute of Oceanography
Domack, Eugene (+6)	GO-072-O	Hamilton College
Wiens, Doug (+2)	GO-097-O	Washington University, Missouri
Dorman, LeRoy (+4)	GO-135-O	Scripps Institute of Oceanography

## **R/V LAURENCE M. GOULD**

The R/V LAURENCE M. GOULD made 13 science cruises and passenger transports to the Antarctic Peninsula during the period of 30 March 1999 through 31 March 2000.

### **Cruise LMG99-3**

21 March 1999 – 20 April 1999: *Multi-disciplinary study of Antarctic fishes, phytoplankton.*

BO-036-O (Sidell) BO-037-O (Detrich) OO-124-O (Visbeck) BO-300-O (D. Anderson)

### **Cruise LMG99-4 and LMG99-5**

27 April 1999 – 02 July 1999: *Continuation of LMG99-3.*

BO-036-O (Sidell) BO-037-O (Detrich)

### **Cruise LMG99-6**

09 July 1999 – 30 July 1999: *Palmer Station Support Cruise.*

### **Cruise LMG99-7**

01 August 1999 – 10 September 1999: *Transit to Talcahuano, Chile--Maintenance Period—Return transit to Punta Arenas, Chile. Acoustic Doppler Current Profiler (ADCP) installed during this time.*

### **Cruise LMG99-8**

14 September 1999 – 28 September 1999: *Palmer Station Support and ADCP shakedown cruise.*

OO-315-O (Chereskin)

### **Cruise LMG99-8A**

28 September 1999 – 09 October 1999: *Open Period—UNOLS Vessel Science Inspection.*

**Cruise LMG99-8B**

09 October 1999 – 21 October 1999: *Palmer Station Turnover and Copacabana Field Camp Opening.*

**Cruise LMG99-9**

25 October 1999 – 15 November 1999: *Ongoing time-series study of the water column and benthic community in and around the Deception Island caldera region of Antarctica. Open Cape Shirreff Field Camp.*

BO-050-O (K. Smith)

**Cruise LMG99-10**

20 November 1999 – 12 December 1999: *Study of the disposition and fate of bloom material along the West Antarctic Shelf (BO-303-O, BO-313-O). In addition, mooring recovery operations were conducted near Palmer Station and Victor Hugo Island as part of an ongoing microbiology and carbon flux study (BO-046-O).*

BP-046-O (Karl) BO-303-O (C. Smith) BO-313-O (DeMaster)

**Cruise LMG00-1**

17 December 1999 – 01 February 2000: *Ongoing LTER study of the effects of sea-ice dynamics on biology. This summer cruise also included a brief call at the Cape Shirreff Field Camp.*

BP-013-O (Fraser) BP-016-O (Vernet) BP-021-O (Martinson) BP-028-O (Quetin) BP-032-O (Smith) BP-046-O (Karl)

**Cruise LMG00-2**

05 February 2000 – 26 February 2000: *Ongoing time-series study of the water column and benthic community in and around the Deception Island caldera region of Antarctica. Copa Field Camp Construction materials were delivered during this cruise as well.*

BO-050-O (K. Smith)

**Note:** See Appendix III for complete list of scientific personnel for each I.D. No.

## **Ocean and Climate**

Visbeck, Martin (+4)	OO-124-O	Lamont-Doherty Earth Observatory
Chereskin, Teri (+2)	OO-315-O	University of Hawaii

## **Biology & Medical Research**

Sidell, Bruce (+4)	BO-036-O	University of Maine
Detrich, William (+5)	BO-037-O	Northeastern University
Karl, David (+6)	BP-046-O	University of Hawaii
Smith, Ken (+16)	BO-050-O	Scripps Institute of Oceanography
Anderson, Donald (+2)	BO-300-O	Woods Hole Oceanographic Institution
Smith, Craig (+6)	BO-303-O	University of Hawaii

## **R/V YUZHMOREGEOLOGIYA**

Information on cruises conducted by the R/V YUZHMOREGEOLOGIYA on behalf of NOAA's Antarctic Marine Living Resources field program is not available at this time. The "AMLR 1999/200 Field Season Report" will be available later in the fall. Contact the following address for a copy of the printed report:

Southwest Fisheries Service Center  
National Marine Fisheries Service  
National Oceanic & Atmospheric Administration  
P.O. Box 271  
La Jolla, CA 92038